

IN THE SPECIFICATION

Please replace paragraph [0019] with the following paragraph [0019.1]:

[0019.1] According to as aspect of this disclosure, there is provided a radio communication method for a radio communication system in which output signals are generated from a plurality of information signals and then transmitted to a system of a communication partner from a plurality of antennas. The method includes receiving control information transmitted by the system of the communication partner and determining, based on the received control information, a first weight corresponding to the plurality of antennas for one of the plurality of information signals modulated by a first modulation scheme and encoded by a first encoding method, and a second weight corresponding to the plurality of antennas for another one of the plurality of information signals modulated by a second modulation scheme and encoded by a second encoding method. A first operation result is generated by multiplying the one of the plurality of information signals by the first weight, and a second operation result is generated by multiplying the another one of the plurality of information signals by the second weight. Based on the first operation result and the second operation result, a plurality of the output signals are generated, where each corresponds to one of the plurality of antennas. The plurality of the output signals are transmitted to the system of the communication partner. The control information includes information on the first and second weights and transmission format information, on modulation scheme and encoding method, corresponding to the information on the first and second weights. The modulation scheme and the encoding method correspond to the transmission format information, which is determined based on a signal quality calculated on the assumption that the output signals of the plurality of antennas are generated utilizing the weights corresponding to the information on the first and second weights and transmitted simultaneously.

Please replace paragraph [0020] with the following paragraph [0020.1]:

[0020.1] Further, according to another aspect of this disclosure, there is provided a radio communication system in which output signals are generated from a plurality of information signals and then transmitted to a system of a communication partner from a plurality of antennas. The system includes a reception device for receiving control information transmitted by the system of the communication partner and a weight determining device for determining, based on the received control information, a first weight corresponding to the plurality of antennas for one of the plurality of information signals modulated by a first modulation scheme and encoded by a first encoding method, and a second weight corresponding to the plurality of antennas for another one of the plurality of information signals modulated by a second modulation scheme and encoded by a second encoding method. The system further includes an operation device for generating a first operation result by multiplying the one of the plurality of information signals by the first weight, and generating a second operation result by multiplying the another one of the plurality of information signals by the second weight. A transmission device is also provided which generates, based on the first operation result and the second operation result, a plurality of the output signals each corresponding to one of the plurality of antennas, and transmits the plurality of the output signals to the system of the communication partner. The control information includes information on the first and second weights and transmission format information, on modulation scheme and encoding method, corresponding to the information. The modulation scheme and encoding method correspond to the transmission format information being determined based on the signal quality calculated on the assumption the output signals of the plurality of antennas are generated utilizing the weights corresponding to the information and transmitted simultaneously.

Please delete the text from paragraph [0021] to [0024] in its entirety.

Please amend paragraph [0098] as follows:

[0098] A procedure of transmission control of a MIMO system using transmission beam forming will be described with reference to FIG. 26 below. The terminal A first sends pilot signals from the respective transmission beams 117 to 119 (S701). When receiving a pilot signal, the terminal B estimates a propagation vector of each signal (S702). Furthermore, the terminal B determines a transmission beam to be used based on the estimated propagation vector (S703) and notifies the terminal A of a transmission beam to be used with a control signal (S704). When receiving the control signal, the terminal A selects a transmission beam to be used and sends an information signal to the terminal B (S705).